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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/538,738 10/21/2005		. Tsutomu Ichihara	P28028 7298	
7055 GREENBLUM	7590 12/21/2006 I & BERNSTEIN, P.L.O		EXAMINER	
1950 ROLANI	CLARKE PLACE	PATEL, VIP		
RESTON, VA 20191			ART UNIT	PAPER NUMBER
	•	2879		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MONTHS		12/21/2006	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 12/21/2006.

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gbpatent@gbpatent.com pto@gbpatent.com

		Applicati	on No.	Applicant(s)			
Office Action Summary		10/538,7	38	ICHIHARA ET AL.			
		Examine	7	Art Unit			
		Vip patel		2879			
Period fo	The MAILING DATE of this commun r Reply	ication appears on th	e cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		• •					
1)	Responsive to communication(s) file	ed on					
2a)□	•	2b)⊠ This action is r	on-final.				
3)	Since this application is in condition	for allowance except	for formal matters, pro	osecution as to the merits is			
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1-18 is/are pending in the	application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) 🗌	Claim(s) is/are allowed.						
6)🖂	Claim(s) 1-18 is/are rejected.			•			
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restri	ction and/or election i	requirement.				
Applicati	on Papers			*			
9)[The specification is objected to by the	ne Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any object	ection to the drawing(s)	be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119	•					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ⊠ All b) □ Some * c) □ None of:							
,, /,	1.⊠ Certified copies of the priority documents have been received.						
•	2. Certified copies of the priority			ion No			
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
	•						
Attachmen	it(s)			•			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	ce of Draftsperson's Patent Drawing Review (Paper No(s)/Mail D 5) Notice of Informal I				
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <i>0905</i> .		6) Other:	aren's the business.			
•							

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In line 14 of claim 1, "said lower layer" lacks antecedent basis. In line 1 of claim 1, the phrase "type" should be deleted so that the field emission electron source is claimed and not other un-described sources. See MPEP § 2173.05(d).

Claims 2-18 are indefinite for the same reasons since by their dependencies, it incorporate the same deficiency as their parent claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Ichihara et al (EP 1 094485 A2).

Regarding claims 1-2, Ichihara discloses a field emission electron source (see figure 1) comprising an insulative substrate (11), an electron source element (combination of 8, 9, 3, 6, and 7) having a lower electrode (8), an amorphous buffer layer (3) having greater resistance than polycrystalline silicon, a strong drift layer (6)

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including polycrystalline silicon, and a surface electrode (7). Please see Paragraphs 14, 15, 21, 56, 74, and 90.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vip Patel whose telephone number is (571) 272-2458. The examiner can normally be reached on 5.30am-2pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner